



PRODUCT SPECIFICATIONS

# HeetSheet®

## VESSEL HEATING/COOLING SYSTEM

### APPLICATION

HeetSheet tank heating units are constructed of 26-gage type 304 stainless steel, conforming to ASTM A240. The welded waffle style pattern provides multiple flow paths reducing risk of blockage possible with single-flow designs.

For temperatures up to 375°F (190°C), Thermon NH non-hardening heat transfer compound is factory applied to the surface of the HeetSheet unit that contacts the tank wall. This is to eliminate air gaps and optimize heat transfer.

HeetSheet units are available in multiple sizes and are pre-rolled to conform to the radius of the tank. Stainless steel tubing connections are provided for steam or other heating or cooling media. Customer supplied fittings are used to connect the inlet and outlet tubes to ThermoTube® pre-insulated supply and return tubing. ThermoTube is arranged separately.

### RATINGS

Max. operating temperature .....375°F (190°C)  
Minimum operating temperature..... -320°F (-196°C)  
Max. operating pressure.....150 psig (1,136 kPa g)  
Maximum field test pressure.....225 psig (1,700 kPa g)  
Heat transfer coefficient<sup>1</sup> ..... HeetSheet unit to tank wall  
20-40 Btu/hr-°F-ft<sup>2</sup> (114-227 W/m<sup>2</sup>-°C)

### ASME INSPECTION/CERTIFICATION

ASME does not require units of small internal volume and pressure rating to be certified. Specifically, the maximum stored energy in a HeetSheet unit falls well below the limits set by the Code for certification as defined by the following three volume and pressure points:

- 5.0 ft<sup>3</sup> and 250 psi (0.14 m<sup>3</sup> and 1720 kPa)
- 3.0 ft<sup>3</sup> and 350 psi (0.08 m<sup>3</sup> and 2410 kPa)
- 1.5 ft<sup>3</sup> and 600 psi (0.04 m<sup>3</sup> and 4140 kPa)

(No HeetSheet units approach these volumes. See Product Configuration table on reverse side for internal volume of standard HeetSheet units.)

HeetSheet units are designed and fabricated in accordance with the requirements of ASME Section VIII Div 1 Boiler and Pressure Vessel Code but are not inspected nor stamped.<sup>2</sup>

#### Notes

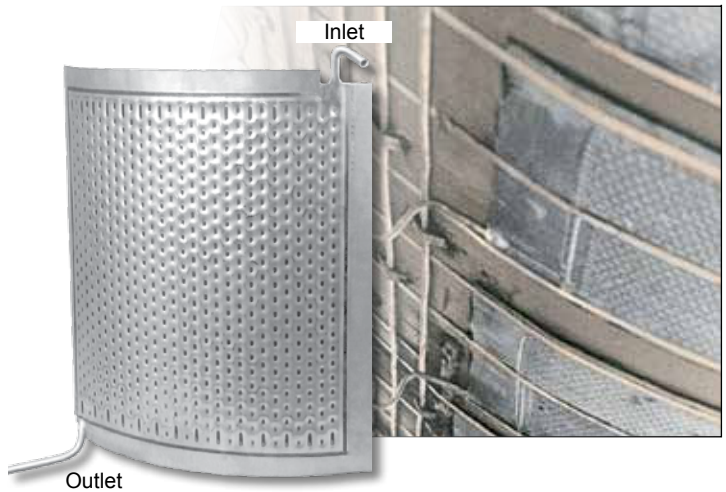
1. Information for design and performance is based upon the use of Thermon heat transfer compounds.
2. ASME inspection and stamping is available as an option for all heavy gage HeetSheet when specified on order..

### THERMON The Heat Tracing Specialists®



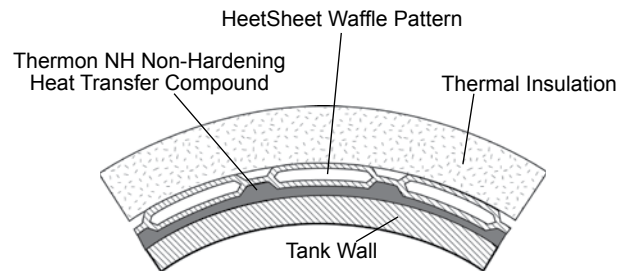
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### CONSTRUCTION

- 3/8" O.D. stainless tubing for inlet and outlet connections
- Type 304 stainless steel waffle pattern panel
- Factory-applied non-hardening heat transfer compound (see Typical Cross Section illustration)



Typical Cross Section

### BENEFITS

- Each design is based on known and predictable heat transfer coefficients.
- Thermon heat transfer compounds provide high heat transfer rates.
- Requires only 1/2 to 1/3 the heating surface area of plate-type coils for like applications.
- Pre-rolled units assure quick installation.
- Used for both heating or cooling applications.
- No possibility for cross contamination of heating media and tank/vessel contents is possible.

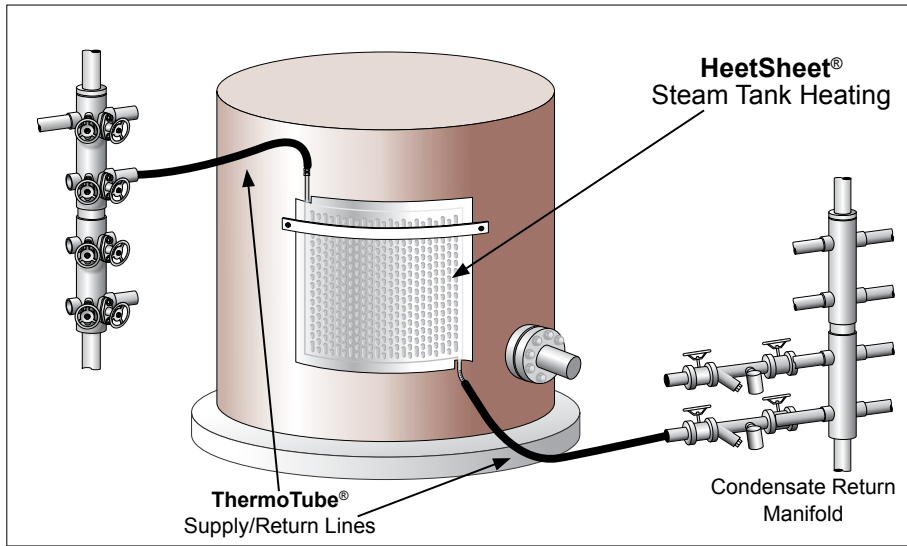


PRODUCT SPECIFICATIONS

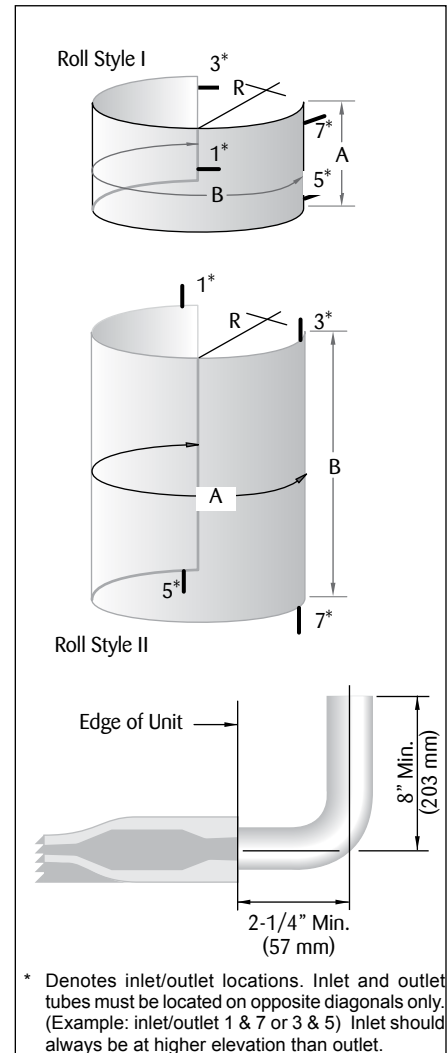
**HeetSheet®**

VESSEL HEATING/COOLING SYSTEM

**TYPICAL TANK HEATING SYSTEM**



**INLET & OUTLET CONFIGURATIONS**



**PRODUCT PROPERTIES<sup>2</sup>**

Catalog Number <sup>3</sup>	External Dimensions A x B in (mm)	Nominal Heated Area ft <sup>2</sup> (m <sup>2</sup> )	Internal Volume ft <sup>3</sup> (cm <sup>3</sup> )	Approx. Weight Without Compound lbs (kgs)	Approx. Weight With Compound lbs (kgs)
HS-2	24 x 24 (610 x 610)	4 (0.37)	0.018 (500)	5.75 (2.6)	7.75 (3.5)
HS-3	24 x 36 (610 x 915)	6 (0.55)	0.027 (750)	8.6 (3.9)	11.6 (5.2)
HS-4	24 x 48 (610 x 1220)	8 (0.74)	0.036 (1000)	11.5 (5.2)	15.5 (7.0)
HS-6	24 x 72 (610 x 1830)	12 (1.10)	0.054 (1500)	17.2 (7.8)	23.2 (10.5)
HS-8	24 x 96 (610 x 2440)	16 (1.49)	0.072 (2000)	23.0 (10.4)	31.0 (14.1)

**Notes**

- Connections between the steam and condensate headers and the HeetSheet may be accomplished with ThermoTube pre-insulated tubing. ThermoTube is available in a variety of sizes to meet the requirements of the application. For information on ThermoTube pre-insulated tubing, refer to Form TSP0009.
- For sizes or product configurations other than those listed, contact Thermon.
- When ordering HeetSheet units without heat transfer compound, use the NC designation at the end of the catalog number. Example HS-2-NC.
- Pre-rolled radius of curvature is limited to a minimum of 4" (102 mm) for the 26 gauge units.

**BASIC ACCESSORIES**



**T3SSB** stainless steel banding (.50" x .030") used to secure HeetSheet to tank.

**C001** banding tool for applying tension to stainless steel banding.

**1950A** . . . crimping tool for T34PB-CR seals.

**T34PB-CR** crimp seals for fastening tensioned banding.



**ThermoTube** pre-insulated tubing used for steam supply and condensate return on steam heating circuits. (ThermoTube can also be utilized to transport other heating or cooling media.)



**FAK-7** contains a roll of self-vulcanizing silicone rubber tape and RTV sealant to complete approximately six ThermoTube® terminations.



**T-75** is a specialty heat transfer compound formulated for its exceptional bond strength and smooth spreading texture for surface heating applications. Can also be used with other manufacturers' plate-type coil units.